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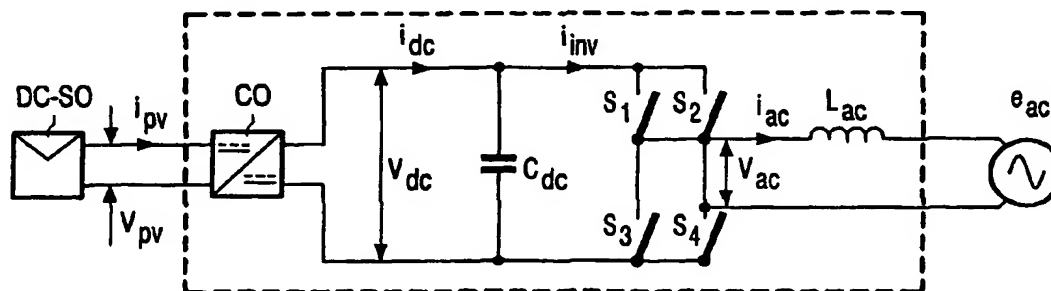
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(57) Abstract: In a system for the conversion between DC power and AC power, including a buffer capacitor and a controllable converting arrangement, said conversion is controlled by a power control quantity that in turn depends on a first component assuring a balance between DC power and AC power and a second component indicating a change in energy stored in the buffer capacitor on a predetermined sampling time instant in the cycle of the voltage ripple on the buffer capacitor.

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# INTERNATIONAL SEARCH REPORT

Intern. Application No. **02/521183**  
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**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H02M7/5387

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According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	SCHMIDT R ET AL: "Control of an optimized converter for modular solar power generation" INDUSTRIAL ELECTRONICS, CONTROL AND INSTRUMENTATION, 1994. IECON '94., 20TH INTERNATIONAL CONFERENCE ON BOLOGNA, ITALY 5-9 SEPT. 1994, NEW YORK, NY, USA, IEEE, 5 September 1994 (1994-09-05), pages 479-484, XP010137449 ISBN: 0-7803-1328-3 the whole document	1,2,4
A	US 2002/085397 A1 (SUZUI ET AL) 4 July 2002 (2002-07-04) the whole document	1,2,4
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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US 6232742	B1	15-05-2001	US	5914590 A	22-06-1999

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	US 6 232 742 B1 (WACKNOV ET AL) 15 May 2001 (2001-05-15) column 4, line 1 -column 7, line 23; figures 1-7	1,4
A	KIKUCHI N ET AL: "Single phase amplitude modulation inverter for utility interaction photovoltaic system" INDUSTRIAL ELECTRONICS SOCIETY, 1999. IECON '99 PROCEEDINGS. THE 25TH ANNUAL CONFERENCE OF THE IEEE SAN JOSE, CA, USA 29 NOV.-3 DEC. 1999, PISCATAWAY, NJ, USA, IEEE, US, 29 November 1999 (1999-11-29), pages 385-389, XP010366885 ISBN: 0-7803-5735-3 the whole document	1